



SHEET 1 OF 7

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)									ATTY DOCKET NO: PAIGE=1D			SERIAL NO: 09/429,331		
									APPLICANT: PAIGE, et al.					
									FILING DATE: October 28, 1999			GROUP: 1627		
U.S. PATENT DOCUMENTS (include at least patentee, patent number and issue date)														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	PATENTEE	CLASS	SUB-CLASS	FILING DATE IF APPROP.	
TDW		AA	4	6	6	4	9	8	9	12MAY1987	JOHNSON	—	—	
		AB	5	0	7	1	7	7	3	10DEC1991	EVANS, et al	1	1	
		AC	5	1	9	8	3	4	6	30MAR1993	LADNER, et al.			
		AD	5	2	1	7	8	6	7	08JUN1993	EVANS, et al.			
		AE	5	2	2	3	4	0	9	29JUN1993	LADNER, et al.			
		AF	5	2	9	8	4	2	9	29MAR1994	EVANS, et al.			
		AG	5	4	4	5	9	4	1	29AUG1995	YANG			
		AH	5	5	0	6	3	3	7	09APR1996	SUMMERTON, et al.			
		AI	5	5	4	5	5	6	8	13AUG1996	ELLMAN			
		AJ	5	5	8	7	2	9	3	24DEC1996	KAUVAR, et al.			
		AK	5	5	9	5	8	7	7	21JAN1997	GOLD, et al.			
		AL	5	7	0	7	8	0	3	13JAN1998	LAMB, et al.			
		AM	5	7	2	3	2	9	1	03MAR1998	KUSHNER, et al.			
		AN	5	7	8	9	1	8	4	04AUG1998	FOWLKES, et al.			
		AO	5	8	1	4	5	1	7	29SEP1998	SEIDEL, et al.			
✓		AP	5	8	8	2	9	4	4	16MAR1999	SADEE	✓	✓	
FOREIGN PATENT DOCUMENTS (include at least document number, publication date and country)														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES/NO	
TDW		AQ	9	8	3	4	1	2	0	06AUG1998	WIPO	—	—	YES
		AR	9	8	3	4	9	4	8	12AUG1998	WIPO	1	1	YES
		AS	9	8	4	4	3	5	0	08OCT1998	WIPO			YES
		AT	0	0	2	2	1	1	2	20APR2000	WIPO	✓	✓	YES
✓		AU	0	0	2	3	4	6	5	27APR2000	WIPO	✓	✓	YES
EXAMINER <u>T. D. Clegg</u>									DATE CONSIDERED <u>9/18/04</u>					
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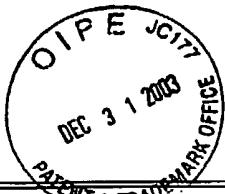
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OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication)			
✓	AV	ALFANO, et al., <u>Time-Resolved and Nonlinear Optical Imaging for Medical Applications</u> , ANN. N.Y. ACAD. SCI., vol. 838, pgs. 14-27, 1998.	
✓	AW	ALLEN, et al., <u>Finding prospective partners in the library: the two-hybrid system and phage display find a match</u> , TIBS, vol. 20, pgs. 511-516, (1995).	
✓	AX	ANZICK, et al., <u>ALB1, a Steroid Receptor Coactivator Amplified in Breast and Ovarian Cancer</u> , SCIENCE, vol. 277, pgs. 965-968, August 15, 1997.	
✓	AY	ARKINSTALL, et al., <u>Mapping regions of G_{αq} interacting with PLCβ1 using multiple overlapping synthetic peptides</u> , FEBS LETTERS, vol. 364, pgs. 45-50, 1995.	
Not in file	AZ	BEEKMAN, et al., <u>Transcriptional Activation by the Estrogen Receptor Requires a Conformational change in the ligand Binding Domain</u> , MOLECULAR ENDOCRINOLOGY, vol. 7, no. 10, pgs. 1266-1274, 1993.	
✓	BA	BENDIXEN, et al., <u>A yeast mating-selection scheme for detection of protein - protein interactions</u> , NUCLEIC ACIDS RESEARCH, vol. 22, no. 9, pgs. 1778-1779, 1994.	
✓	BB	BRENT, et al., <u>Understanding Gene and Allele Function with Two-Hybrid Methods</u> , ANNU. REV. GENET., vol. 31, pgs. 663-704, 1997.	
✓	BC	BROACH, et al., <u>High-throughput screening for drug discovery</u> , NATURE, vol. 384, pgs. 14-16, November 7, 1996.	
✓	BD	BRZOZOWSKI, et al., <u>Molecular basis of agonism and antagonism in the oestrogen receptor</u> , NATURE, vol. 389, pgs. 753-758, October 16, 1997.	
✓	BE	BUNIN, et al., <u>Synthesis and Evaluation of 1,4-Benzodiazepine Libraries</u> , METHODS IN ENZYMOLOGY, vol. 267, pgs. 448-465, 1996.	
✓	BF	BUNIN, et al., <u>The combinatorial synthesis and chemical and biological evaluation of a 1,4-benzodiazepine library</u> , PROC. NATL. ACAD. SCI. USA, vol. 91, pgs. 4708-4712, May 1994.	
✓	BG	CHAHDI, et al., <u>Drugs interacting with G protein α subunits: selectivity and perspectives</u> , FUNDAM CLIN PHARMACOL., vol. 12, pgs. 121-132, 1998.	
✓	BH	CHAMBRAUD, et al., <u>Several Regions of Human Estrogen Receptor are Involved in the Formation of Receptor-Heat Shock Protein 90 Complexes</u> , THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 265, no. 33, pgs. 20686-20691, November 25, 1990.	
✓	BI	CHANG, et al., <u>Dissection of the LXXLL Nuclear Receptor-Coactivator Interaction Motif Using Combinatorial Peptide Libraries: Discovery of Peptide Antagonists of Estrogen Receptors α and β</u> , MOLECULAR AND CELLULAR BIOLOGY, vol. 19, no. 12, pgs. 8226-8239, December 1999.	
✓	BJ	CHEN, et al., <u>Analogous Organic Synthesis of Small-Compound Libraries: Validation of Combinatorial Chemistry in Small-Molecule Synthesis</u> , J. AM. CHEM. SOC., vol. 116, pgs. 2661-2662, 1994.	
✓	BK	COHEN, et al., <u>An artificial cell-cycle inhibitor isolated from a combinatorial library</u> , PROC. NATL. ACAD. SCI. USA, vol. 95, pgs. 14272-14277, November 1998.	
✓	BL	COLAS, et al., <u>Genetic selection of peptide aptamers that recognize and inhibit cyclin-dependent kinase 2</u> , NATURE, vol. 380, pgs. 548-550, April 11, 1996.	
✓	BM	CONKLIN, et al., <u>Substitution of three amino acids switches receptor specificity of G_{αq} to that of G_{αi}</u> , NATURE, vol. 363, pgs. 274-276, May 20, 1993.	
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		APPLICANT: PAIGE, et al.	
		FILING DATE: October 18, 1999	GROUP: 1627
OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication)			
✓	BN	CUMMINS, et al., <u>Molecular Diversity in Chemical Databases: Comparison of Medicinal Chemistry Knowledge Bases and Databases of Commercially Available Compounds</u> , J. CHEM. INF. COMPUT. SCI., vol. 36, pgs. 750-763, 1996.	
✓	BO	DEWITT, et al., <u>"Diversomers": An approach to nonpeptide, nonoligomeric chemical diversity</u> , PROC. NATL. ACAD. SCI. USA, vol. 90, pgs. 6909-6913, August 1993.	
W/pt on file	BP	DMITROVA, et al., <u>A new LexA-based genetic system for monitoring and analyzing protein heterodimerization in Escherichia coli</u> , MOL. GEN GENET., vol. 257, pgs. 205-212, 1998.	
✓	BQ	ESTOJAK, et al., <u>Correlation of Two-Hybrid Affinity Data with In Vitro Measurements</u> , MOLECULAR AND CELLULAR BIOLOGY, vol. 15, no. 10, pgs. 5820-5829, October 1995.	
	BR	FONG, et al., <u>Selective Activation of a Chimeric G_i/G_a G Protein α Subunit by the Human IP Prostanoid Receptor: Analysis Using Agonist Stimulation of High Affinity GTPase Activity and [35S]Guanosine-5'-O-(3-thio)triphosphate Binding</u> , MOLECULAR PHARMACOLOGY, vol. 54, pgs. 249-257, 1998.	
	BS	FROMONT-RACINE, et al., <u>Toward a Functional analysis of the yeast genome through exhaustive two-hybrid screens</u> , NATURE GENETICS, vol. 16, pgs. 277-281, July 16, 1997.	
	BT	FULLER, et al., <u>Development of a Yeast Trihybrid Screen Using Stable Yeast Strains and Regulated Protein Expression</u> , BIOTECHNIQUES, vol. 25, no. 1, pgs. 85-92, July 1998.	
	BU	GALLO, et al., <u>Antagonistic and Agonistic Effects of Tamoxifen: Significance in Human Cancer</u> , SEMINARS IN ONCOLOGY, vol. 24, no. 1, suppl. 1, pgs. SI-71 - SI-80, February 1997. Missing page SI-79.	
	BV	GONZÀLEZ, et al., <u>Intracellular detection assays for high-throughput screening</u> , CURRENT OPINION IN BIOTECHNOLOGY, vol. 9, pgs. 624-631, 1998.	
	BW	GUDERMANN, et al., <u>Functional and Structural Complexity of Signal Transduction Via G-Protein-Coupled Receptors</u> , ANNU. REV. NEUROSCI., vol. 20, pgs. 399-427, 1997.	
	BX	GUDERMANN, et al., <u>Specificity and Complexity of Receptor-G-Protein Interaction</u> , ADVANCES IN SECOND MESSENGER AND PHOSPHOPROTEIN RESEARCH, vol. 31, pgs. 253-262, 1997.	
	BY	GUDERMANN, et al., <u>Diversity and Selectivity of Receptor-G Protein Interaction</u> , ANNU. REV. PHARMACOL. TOXICOL. vol. 36, pgs. 420-459, 1996.	
	BZ	HEERY, et al., <u>A signature motif in transcriptional co-activators mediates binding to nuclear receptors</u> , NATURE, vol. 387, pgs. 733-736, June 12, 1997.	
	CA	HIMMLER, et al., <u>Functional Testing of Human Dopamine D₁ and D₅ Receptors Expressed in Stable cAMP-Responsive Luciferase Reporter Cell Lines</u> , JOURNAL OF RECEPTOR RESEARCH, vol. 13(1-4), pgs. 79-94, 1993.	
	CB	HOWELL, et al., <u>Antiestrogens: Future Prospects</u> , ONCOLOGY, vol. 11, no. 2, supplement no. 1, pgs. 59-64, February 1997.	
✓	CC	KALKBRENNER, et al., <u>Specificity of interaction between receptor and G protein: use of antisense techniques to relate G-protein subunits to function</u> , BIOCHIMICA ET BIOPHYSICA ACTA., vol. 1314, pgs. 125-139, 1996.	
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		FILING DATE: October 28, 1999	GROUP: 1627 ³⁹
OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication)			
TJW	CD	KARIMOVA, et al., <u>A bacterial two-hybrid system based on a reconstituted signal transduction pathway</u> , PROC. NATL. ACAD. SCI. USA, vol. 95, pgs. 5752-5756, May 1998.	
	CE	KATZENELLENBOGEN, et al., <u>Antiestrogens: Mechanisms of action and resistance in breast cancer</u> , BREAST CANCER RESEARCH AND TREATMENT, vol. 44, pgs. 23-38, 1997.	
	CF	KAUVAR, et al., <u>Predicting ligand binding to proteins by affinity fingerprinting</u> , CHEMISTRY & BIOLOGY, vol. 2, pgs. 107-118, February 1995.	
	CG	KLEBE, et al., <u>On the Prediction of Binding Properties of Drug Molecules by Comparative Molecular Field Analysis</u> , J. MED. CHEM., vol. 36, pgs. 70-80, 1993.	
	CH	KLUG, et al., <u>All you wanted to know about SELEX</u> , MOLECULAR BIOLOGY REPORTS, vol. 20, pgs. 97-107, 1994.	
	CI	KOLONIN, et al., <u>Targeting cyclin-dependent kinases in Drosophila with peptide aptamers</u> , PROC. NATL. ACAD. SCI. USA, vol. 95, pgs. 14266-14271, November 1998.	
	CJ	KRAUS, et al., <u>Ligand-dependent, transcriptionally productive association of the amino- and carboxyl-terminal regions of a steroid hormone nuclear receptor</u> , PROC. NATL. ACAD. SCI. USA, vol. 92, pgs. 12314-12318, December 1995.	
	CK	KUIPER, et al., <u>The novel estrogen receptor-β subtype: potential role in the cell- and promoter-specific actions of estrogen and anti-estrogens</u> , FEBS LETTERS, vol. 410, pgs. 87-90, 1997.	
	CL	LANDEL, et al., <u>The Interaction of Human Estrogen Receptor with DNA is Modulated by Receptor-Associated Proteins</u> , MOLECULAR ENDOCRINOLOGY, vol. 8, no. 10, pgs. 1407-1419, 1994.	
	CM	LAVINSKY, et al., <u>Diverse signaling pathways modulate nuclear receptor recruitment of N-CoR and SMRT complexes</u> , PROC. NATL. ACAD. SCI. USA, vol. 95, pgs. 2920-2925, March 1998.	
	CN	LECRENIER, et al., <u>Two-hybrid systematic screening of the yeast proteome</u> , BIOESSAYS, vol. 20, pgs. 1-5, 1998.	
	CO	LUNDBLAD, et al., <u>Fluorescence Polarization Analysis of Protein-DNA and Protein-Protein Interactions</u> , MOLECULAR ENDOCRINOLOGY, vol. 10, no. 6, pgs. 607-612, 1996.	
	CP	MACGREGOR, et al., <u>Basic Guide to the Mechanisms of Antiestrogen Action</u> , PHARMACOLOGICAL REVIEWS, vol. 50, no. 2, pgs. 151-158, 1998. Missing pages after 158.	
	CQ	MARTIN, et al., <u>Potent Peptide Analogues of a G protein Receptor-Binding Region Obtained with a Combinatorial Library</u> , THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 271, no. 1, pgs. 361-366, January 5, 1996.	
	CR	MATTER, Hans, <u>Selecting Optimally Diverse Compounds from Structure Databases: A Validation Study of Two-Dimensional and Three-Dimensional Molecular Descriptors</u> , J. MED. CHEM., vol. 40, pgs. 1219-1229, 1997.	
	CS	MCDONNELL, et al., <u>Development of Tissue-Selective Estrogen Receptor Modulators</u> , ERNST SCHERING RESEARCH FOUNDATION, Workshop 16, ORGAN-SELECTIVE ACTIONS OF STEROID HORMONES, pgs. 1-28.	
EXAMINER T. D. M.		DATE CONSIDERED 2/18/04	
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SHEET 5 OF 7

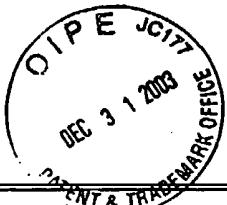
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OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication)

✓	CT	MCDONNELL, D.P., <u>Definition of the molecular mechanism of action of tissue-selective oestrogen-receptor modulators</u> , BIOCHEMICAL SOCIETY TRANSACTIONS, vol. 26, pgs. 54-60, 1998.
✓	CU	MCDONNELL, et al., <u>Definition of the cellular mechanisms which distinguish between hormone and antihormone activated steroid receptors</u> , CANCER BIOLOGY, vol. 5, pgs. 327-336, 1994.
✓	CV	MCDONNELL, et al., <u>In Situ Distinction between Steroid Receptor Binding and Transactivation at a Target Gene</u> , MOLECULAR AND CELLULAR BIOLOGY, vol. 11, no. 9, pgs. 4350-4355, September 1991.
✓	CW	MCINERNEY, et al., <u>Determinants of coactivator LXXLL motif specificity in nuclear receptor transcriptional activation</u> , GENES & DEVELOPMENT, vol. 12, pgs. 3357-3368, 1998.
✓	CX	MILLAR, et al., <u>Time-resolved fluorescence spectroscopy</u> , CURRENT OPINION IN STRUCTURAL BIOLOGY, vol. 6, pgs. 637-642, 1996.
✓	CY	MILLIGAN, et al., <u>Chimaeric G_α proteins: their potential use in drug discovery</u> , TRENDS PHARMACOL. SCI., vol. 20, pgs. 118-24, 1999.
✓	CZ	MITRA, et al., <u>Fluorescence resonance energy transfer between blue-emitting and red-shifted excitation derivatives of the green fluorescent protein</u> , GENE, vol. 173, pgs. 13-16, 1996.
✓	DA	MOCHIZUKI, et al., <u>Identification and cDNA cloning of a novel human mosaic protein, LGN, based on interaction with G_{αi2}</u> , GENE vol. 181, pgs. 39-43, 1996.
NOT on file	DB	MOHLER, et al., <u>Gene expression and cell fusion analyzed by lacZ complementation in mammalian cells</u> , PROC. NATL. ACAD. SCI. USA, vol. 93, pgs. 12423-12427, October 1996.
✓	DC	MONTANO, et al., <u>The Carboxy-Terminal F Domain of the Human Estrogen Receptor: Role in the Transcriptional Activity of the Receptor and the Effectiveness of Antiestrogens as Estrogen Antagonists</u> , MOLECULAR ENDOCRINOLOGY, vol. 9, no. 7, pgs. 814-825, 1995.
✓	DD	NEFZI, et al., <u>The Current Status of Heterocyclic Combinatorial Libraries</u> , CHEM. REV., vol. 97, pgs. 449-472, 1997.
✓	DE	NICHOLS, et al., <u>Different positioning of the ligand-binding domain helix 12 and the F domain of the estrogen receptor accounts for functional differences between agonists and antagonists</u> , THE EMBO JOURNAL, vol. 17, no. 3, pgs. 765-773, 1998.
✓	DF	NOLTE, et al., <u>Ligand binding and co-activator assembly of the peroxisome proliferator-activated receptor-γ</u> , NATURE, vol. 395, pgs. 134-143, September 10, 1998. Missing pages 139, 140, and 141.
✓	DG	NORRIS, et al., <u>Identification of the Sequences within the Human Complement 3 Promoter Required for Estrogen Responsiveness Provides Insight into the Mechanism of Tamoxifen Mixed Agonist Activity</u> , MOL. ENDO., vol. 10, no. 12, pgs. 1605-1616, 1996.
✓	DH	NORRIS, et al., <u>Identification of a Third Autonomous Activation Domain within the Human Estrogen Receptor</u> , MOLECULAR ENDOCRINOLOGY, vol. 11, no. 6, pgs. 747-754, 1997.

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OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication)				
<i>TJW</i>	DI	OLIPHANT, et al., <u>Cloning of random-sequence oligodeoxynucleotides</u> , GENE, vol. 44, pgs. 177-183, 1986.		
	DJ	OSBORNE, et al., <u>Nucleic Acid Selection and the Challenge of Combinatorial Chemistry</u> , vol. 97, pgs. 349-370, 1997.		
	DK	PAECH, et al., <u>Differential Ligand Activation of Estrogen Receptors ERα and ERβ at AP1 Sites</u> , SCIENCE, vol. 277, pgs. 1508-1510, September 5, 1997.		
	DL	PATTERSON, et al., <u>Neighborhood Behavior: A Useful Concept for Validation of "Molecular Diversity" Descriptors</u> , J. MED. CHEM., vol. 39, pgs. 3049-3059, 1996.		
	DM	PELLETIER, et al., <u>Oligomerization domain-directed reassembly of active dihydrofolate reductase from rationally designed fragments</u> , PROC. NATL. ACAD. SCI. USA, vol. 95, pgs. 12141-12146, October 1998.		
	DN	PENNISI, Elizabeth, <u>Differing Roles Found for Estrogen's Two Receptors</u> , SCIENCE, vol. 277, pg. 1439, September 5, 1997.		
	DO	RASENICK, et al., <u>Synthetic Peptides as Probes for G Protein Function</u> , THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 269, no. 34, pgs. 21519-21525, 1994.		
	DP	REHRAUER, et al., <u>Interaction of Escherichia coli RecA Protein with LexA Repressor</u> , THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 271, no. 39, pgs. 23865-23873, 1996.		
	DQ	REMY, et al., <u>Erythropoietin Receptor Activation by a Ligand-Induced Conformation Change</u> , SCIENCE, vol. 283, pgs. 990-993, February 12, 1999.		
<i>↓</i>	DR	RINGEL, et al., <u>Clinical Implications of Genetic Defects in G Proteins</u> , MEDICINE, vol. 75, no. 4, pgs. 171-184, 1996.		
<i>Not in file</i>	DS	ROSSI, et al., <u>Monitoring protein-protein interactions in intact eukaryotic cells by β-galactosidase complementation</u> , PROC. NATL. ACAD. SCI. USA, vol. 94, pgs. 8405-8410, August 1997.		
<i>do</i>	DT	SHIAU, et al., <u>The Structural Basis of Estrogen Receptor/Coactivator Recognition and the Antagonism of This Interaction by Tamoxifen</u> , CELL, vol. 95, pgs. 927-937, December 23, 1998.		
<i>TJW</i>	DU	SIMON, et al., <u>Peptoids: A modular approach to drug discovery</u> , PROC. NATL. ACAD. SCI. USA, vol. 89, pgs. 9367-9371, October 1992.		
<i>TJW</i>	DV	SMITH, et al., <u>Filamentous Fusion Phage: Novel Expression Vectors That Display Cloned Antigens on the Virion Surface</u> , SCIENCE, vol. 233, pgs. 1315-1317, June 14, 1985.		
<i>TJW</i>	DW	SZÖLLÖSI, et al., <u>Application of Fluorescence Resonance Energy Transfer in the Clinical Laboratory: Routine and Research</u> , CYTOMETRY (COMMUNICATIONS IN CLINICAL CYTOMETRY), vol. 34, pgs. 159-179, 1998.		
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	DX	TREMBLAY, et al., Ligand-independent Activation of the Estrogen Receptors α and β by Mutations of a Conserved Tyrosine Can Be Abolished by Antiestrogens, CANCER RESEARCH, vol. 58, pgs. 877-881, March 1, 1998.	
	DY	TZUKERMAN, et al., Human Estrogen Receptor Transactivational Capacity is Determined by both Cellular and Promoter Context and Mediated by Two Functionally Distinct Intramolecular Regions, MOLECULAR ENDOCRINOLOGY, vol. 8, no. 1, pgs. 21-30, 1994.	
	DZ	VASAVADA, et al., A contingent replication assay for the detection of protein-protein interactions in animal cells, PROC. NATL. ACAD. SCI. USA, vol. 88, pgs. 10686-10690, December 1991.	
	EA	WEINSTEIN, et al., An Information-Intensive Approach to the Molecular Pharmacology of Cancer, SCIENCE, vol. 275, pgs. 343-349, January 17, 1997.	
	EB	WILLSON, et al., Dissection of the Molecular Mechanism of Action of GW5638, a Novel Estrogen Receptor Ligand, Provides Insights into the Role of Estrogen Receptor in Bone, ENDOCRINOLOGY, vol. 138, no. 9, pgs. 3901-3911, 1997.	
	EC	WILLSON, et al., 3-[4-(1,2-Diphenylbut-1-enyl)phenyl]acrylic Acid: A Non-Steroidal Estrogen with Functional Selectivity for Bone over Uterus in Rats, J. MED. CHEM., vol. 37, pgs. 1550-1552, 1994.	
	ED	WOODBURY, et al., Methods of screening combinatorial libraries using immobilized or restrained receptors, JOURNAL OF CHROMATOGRAPHY, vol. 725, pgs. 113-137, 1999.	
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EXAMINER <i>T. D. M.</i>		DATE CONSIDERED <i>9/08/04</i>	
EXAMINER: Initial if reference considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

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